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Title
Iris: an object-oriented database management system.

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Abstract
The **Iris database management system** is a research prototype of a next-generation **database management system** (DBMS) intended to meet the ends of new and emerging **database** applications, including office information and knowledge-based systems, engineering test and measurement, and hardware and software design. **Iris** is exploring a rich set of new **database** capabilities required by these applications, including rich data-modeling constructs, direct **database** support for inference, novel and extensible data types, for example, to support graphic images, voice, text, vectors, and matrices, support for long transactions spanning minutes to many days, and multiple versions of data. These capabilities are, in addition to the usual support for permanence of data, controlled sharing, backup, and recovery The **Iris** DBMS consists of a query processor that implements the **Iris object- oriented** data model, a relational storage subsystem (RSS)-like storage manager that provides access paths and concurrency control, backup, and recovery, and a collection of programmatic and interactive interfaces. The data model supports high-level structural abstractions, such as classification, generalization, and aggregation, as well as behavioral abstractions. The interfaces to Iris include an **object-oriented** extension to SQL. (35 refs).

Descriptors
data-structures; database-management-systems; storage-management.

Keywords
Iris; **object oriented database management system**; DBMS; query processor; relational storage subsystem;